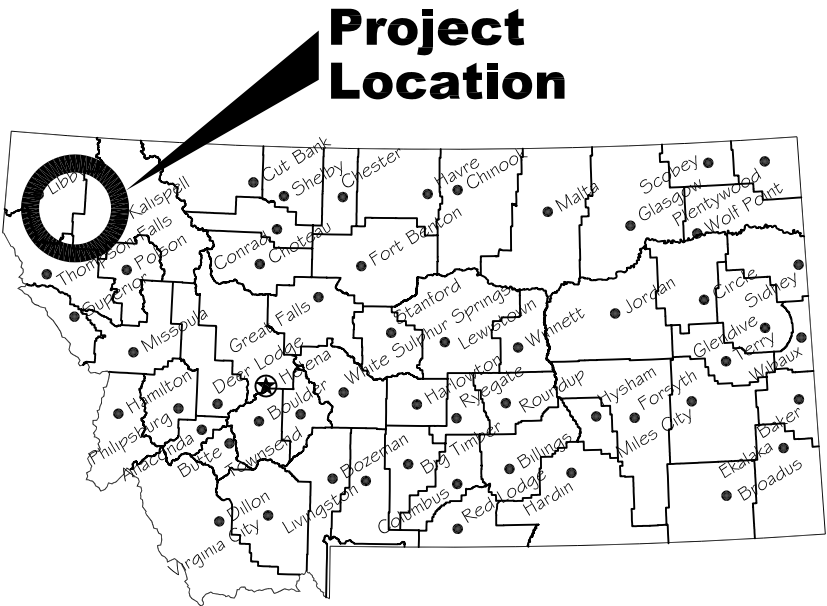


PROPOSED SITE IMPROVEMENTS AT THE
ISLAND LAKE
FISHING ACCESS SITE

LINCOLN COUNTY , MONTANA

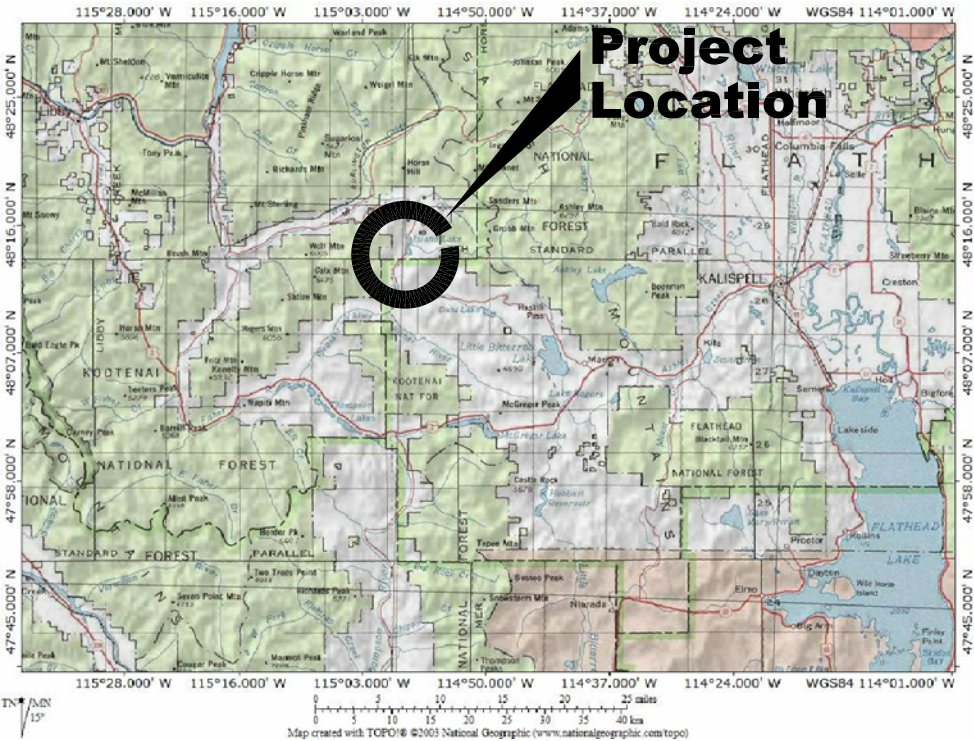
FWP PROJECT #7113702



Project Location

Location Map

No Scale



Project Location

Vicinity Map

No Scale



MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION

MAILING ADDRESS: PO BOX 200701
HELENA, MT 59620-0701
TEL 406.841.4000
FAX 406.841.4004
fwf.mt.gov/Doing Business/Design&Construction

PHYSICAL ADDRESS: 1522 9th AVENUE
HELENA, MT 59601

DRAWING INDEX

- | | |
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| 1 COVER SHEET | 7 OVERALL SITE PLAN |
| 2 TYPICAL ROAD SECTIONS | 8 ENLARGED AREA SITE PLANS |
| 3 TYPICAL CONSTRUCTION DETAILS | 9 ENLARGED AREA SITE PLANS |
| 4 TYPICAL FENCE DETAILS | 10 ENLARGED AREA SITE PLANS |
| 5 LATRINE INSTALLATION DETAILS | 11 PARTIAL SITE PLANS AND PROFILES |
| 6 LEGEND AND GENERAL NOTES | |

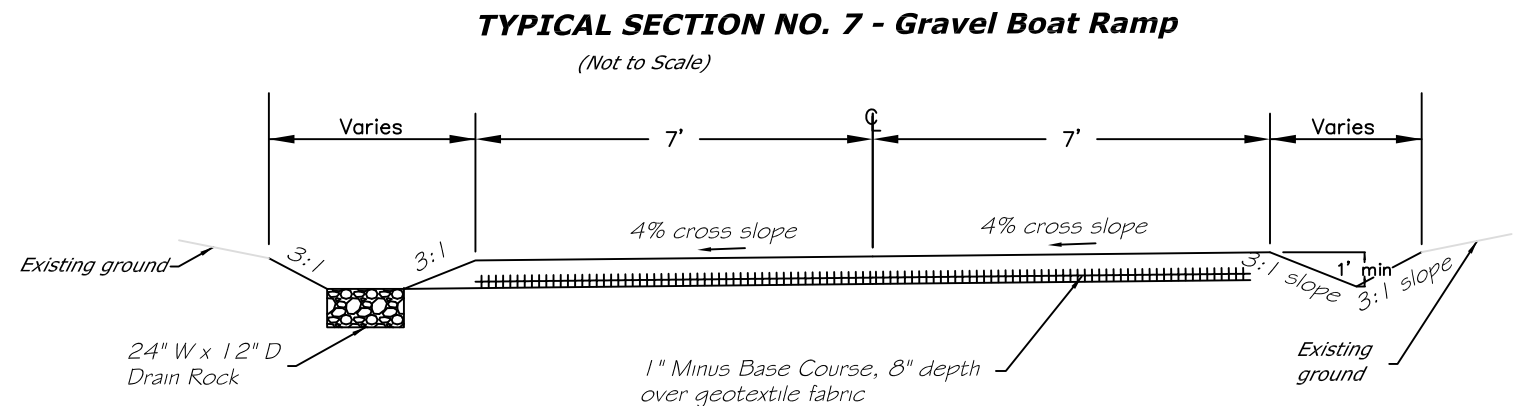
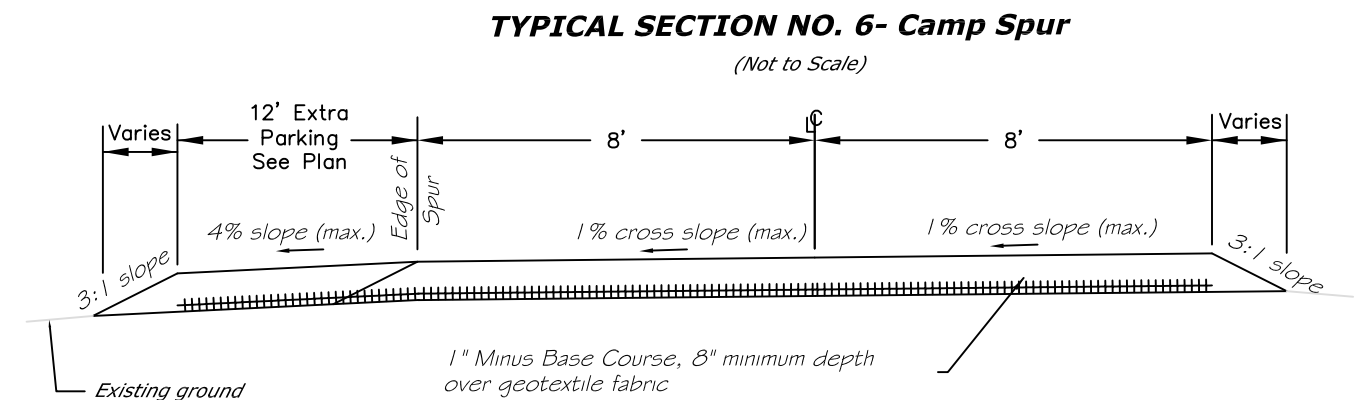
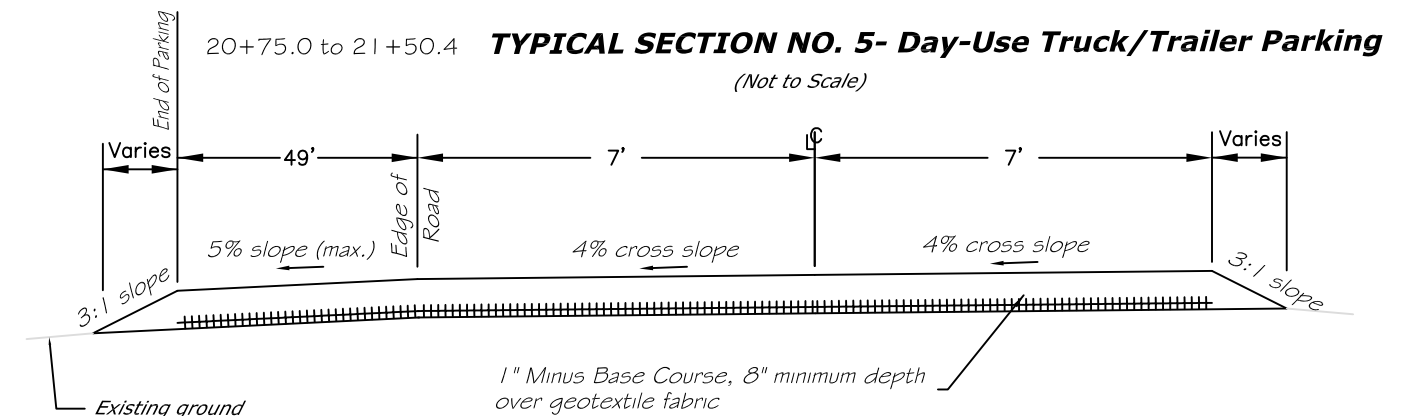
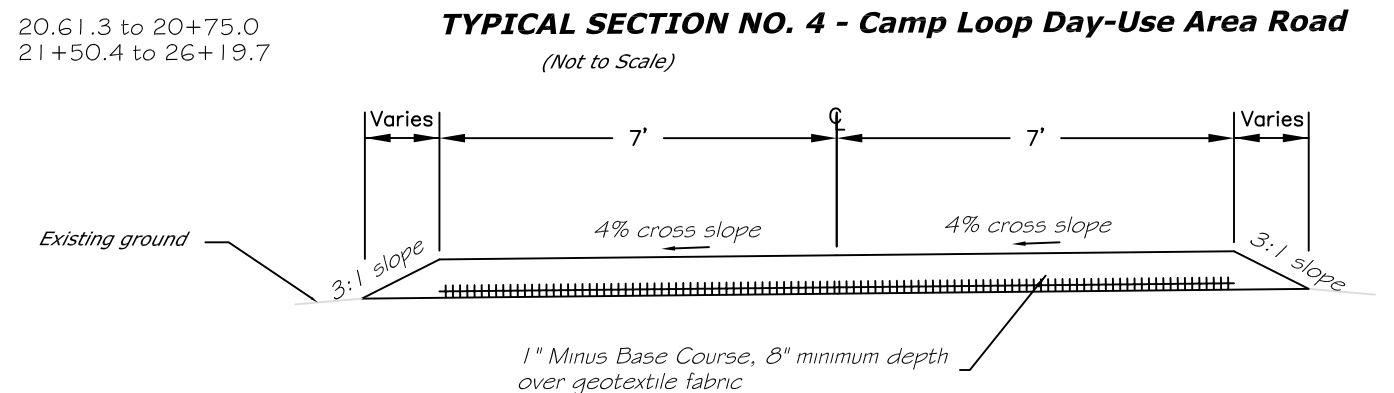
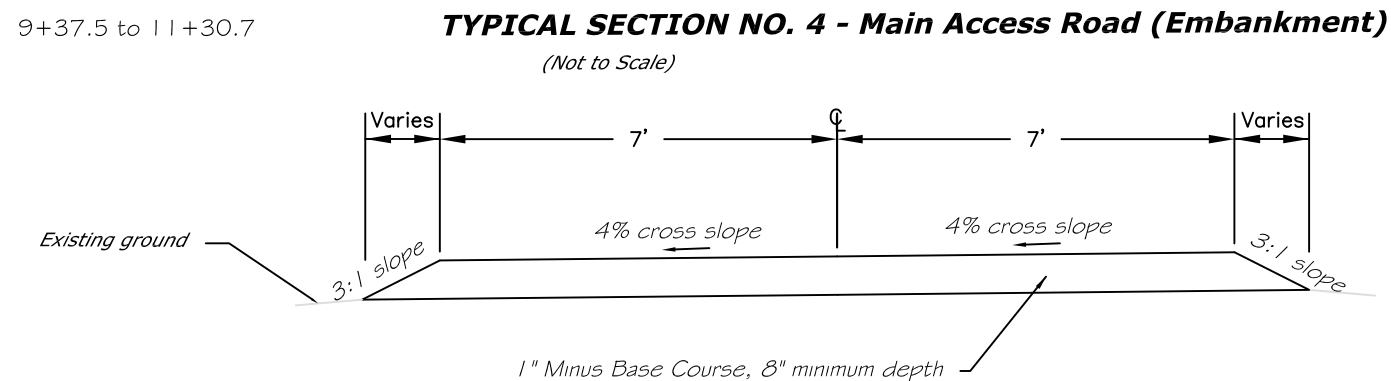
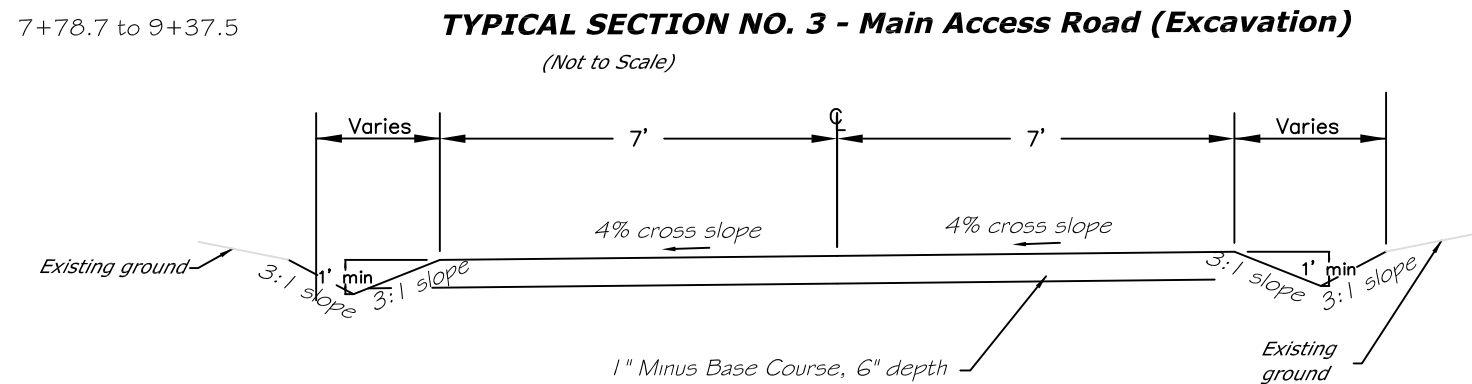
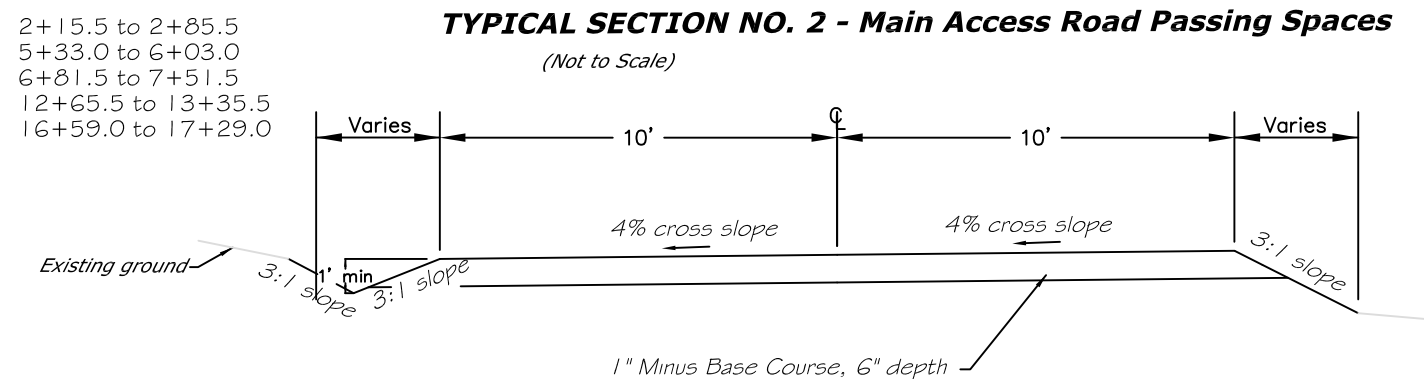
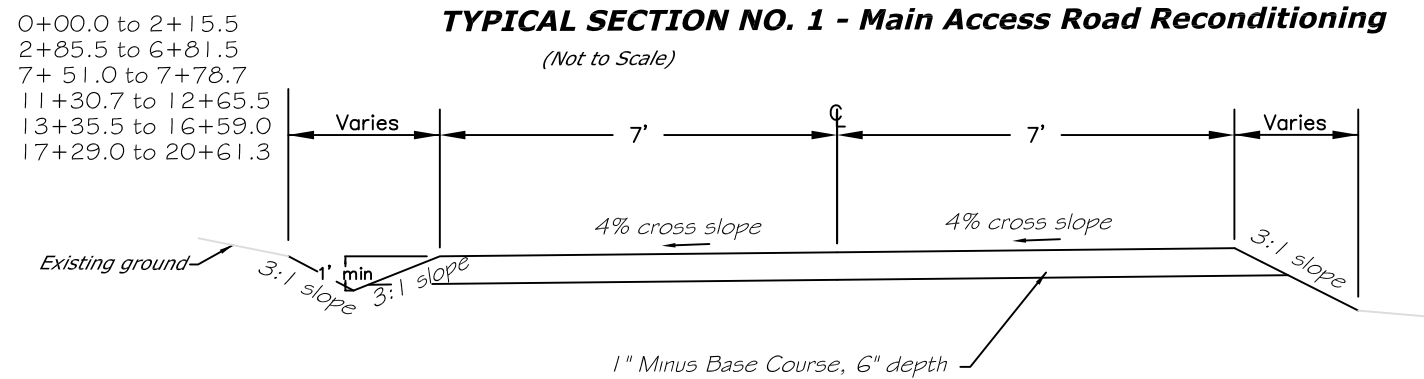


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Cover Sheet
Island Lake Fishing Access Site



SHEET: 1 of 11



B. Mangum August 13, 2014
DRAWN BY: M. McNearney August 13, 2014
CHECKED BY:

APPROVED BY: DATE:
APPROVED BY: DATE:

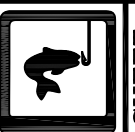
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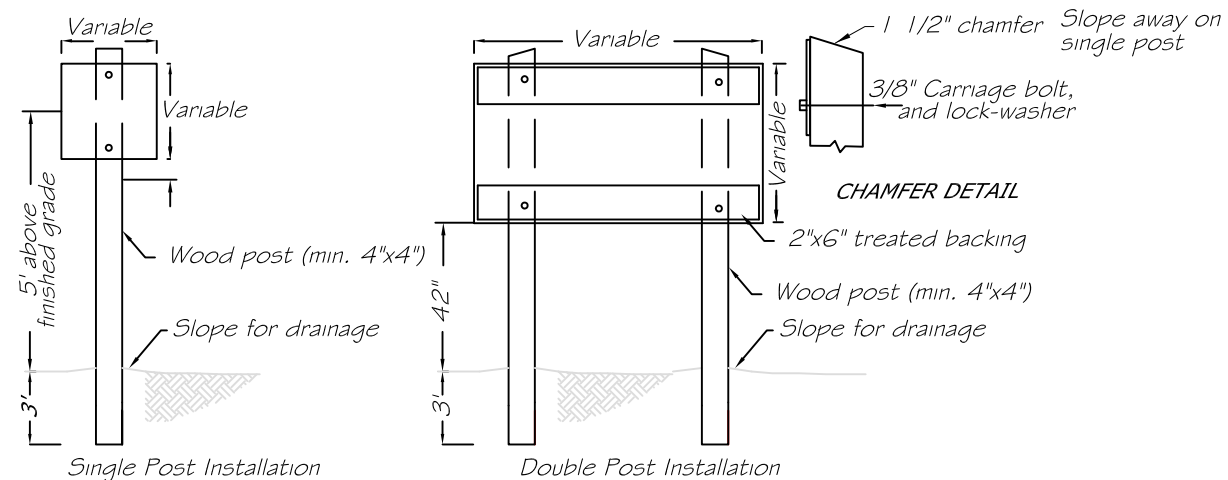
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Typical Road Sections
Island Lake Fishing Access Site

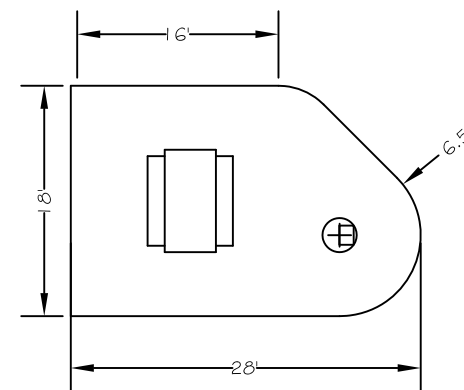


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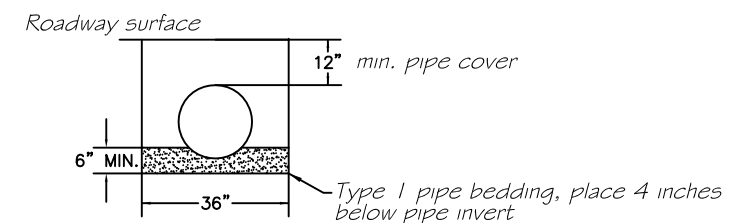
SIGN POST MOUNTING DETAIL
(Not to Scale)

- NOTES:
1. Use pressure treated timbers for all sign posts. Need break-away holes (or device) for larger posts.
 2. Coat all posts with preservative for all drilled holes and cut surfaces.
 3. Use cadmium plated or galvanized steel for all bolts, nuts & washers.
 4. Place bolts to not interfere with sign lettering. Paint bolt heads to match sign.
 5. Center single post panels to post, overhang panels 3" beyond posts for double post installations. Extend all posts 3" above sign panels.
 6. See break-away detail for posts larger than 4 inches in diameter.

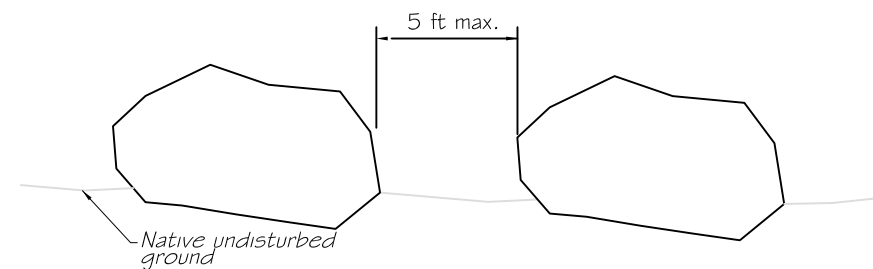


- NOTES:
1. Place and compact 6" of 1" Minus Crushed Base Course at 2% max. slope.
 2. Owner will locate and stake perimeter of each living space.
 3. Picnic tables and fire rings installed by Owner.
 3. Clearing/Grubbing/Excavation/Emankment incidental for each unit price.

GRAVEL CAMP UNIT LIVING SPACE
(Not to Scale)

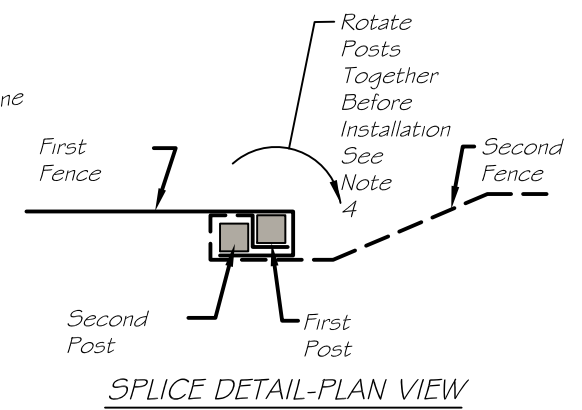
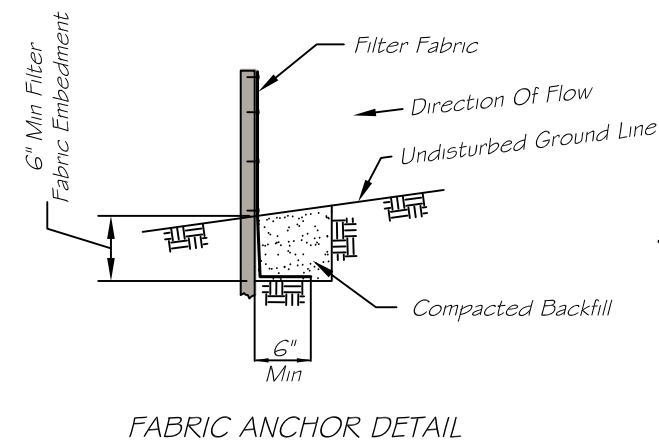
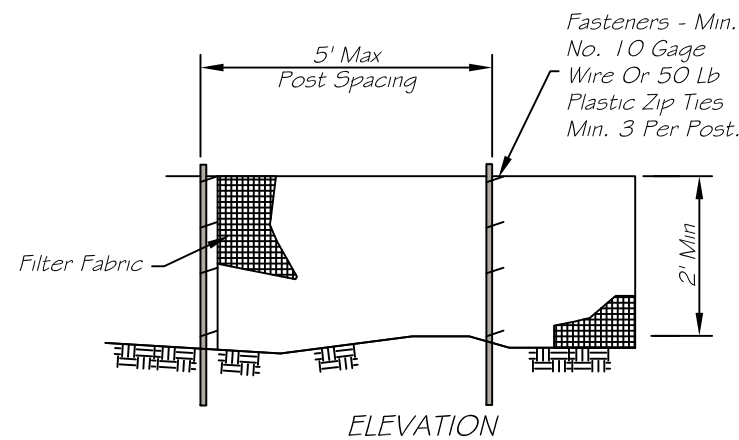


CULVERT BEDDING DETAIL
(Not to Scale)



- NOTES:
1. Barrier rocks shall be placed on undisturbed grade.
 2. Backfill each boulder with topsoil material to 1/3 height as available.
 3. Space barrier rocks at a maximum distance of 5 ft (edge to edge).
 3. Place barrier rocks 5-6 ft from edge of road (edge to gravel).

BARRIER ROCK DETAIL
(Not to Scale)



SILT FENCE AT GRAVEL BOAT RAMP
(Not to Scale)

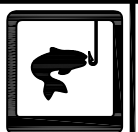
B. Mangum August 13, 2014			
DRAWN BY:	DATE:	APPROVED BY:	DATE:
M. McNearney August 13, 2014			
CHECKED BY:	DATE:	APPROVED BY:	DATE:



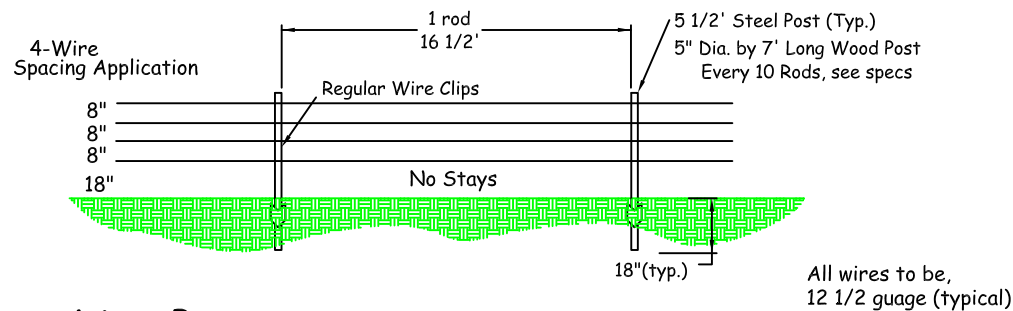
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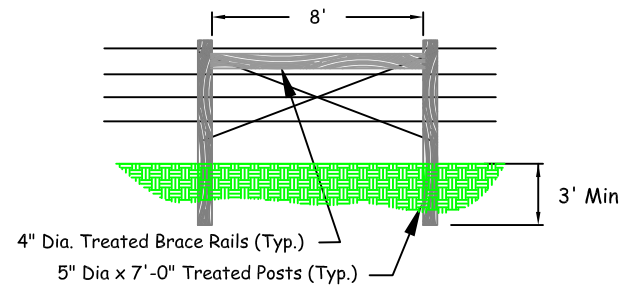
Typical Construction Details
Island Lake Fishing Access Site



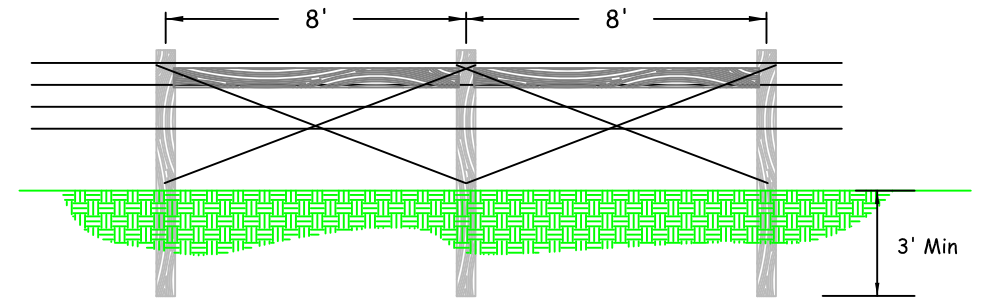
SHEET:
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of
11



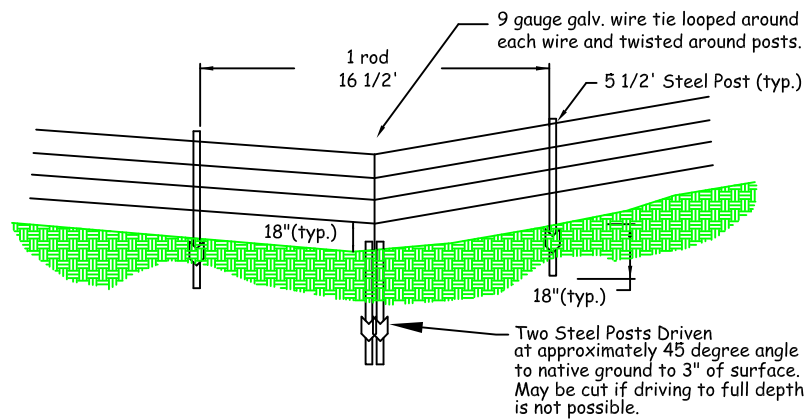
Line Post



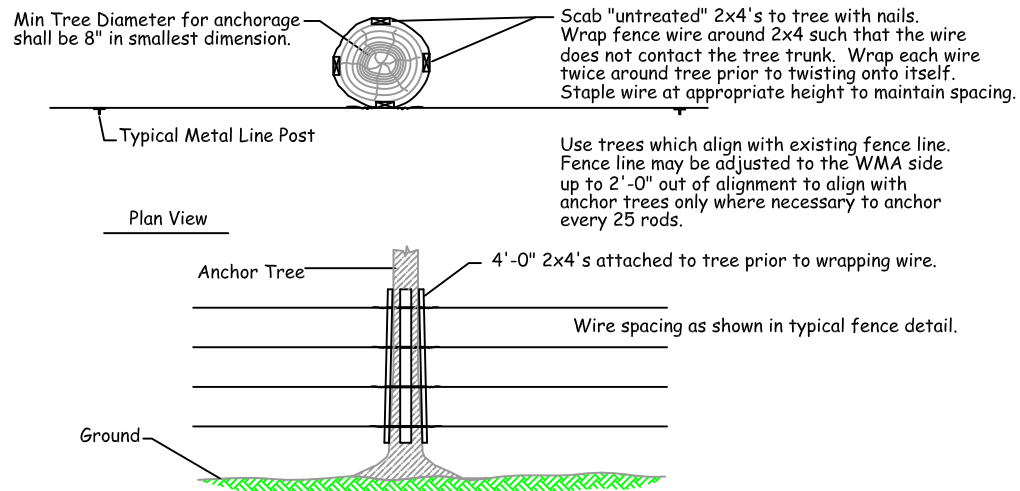
Single Panel



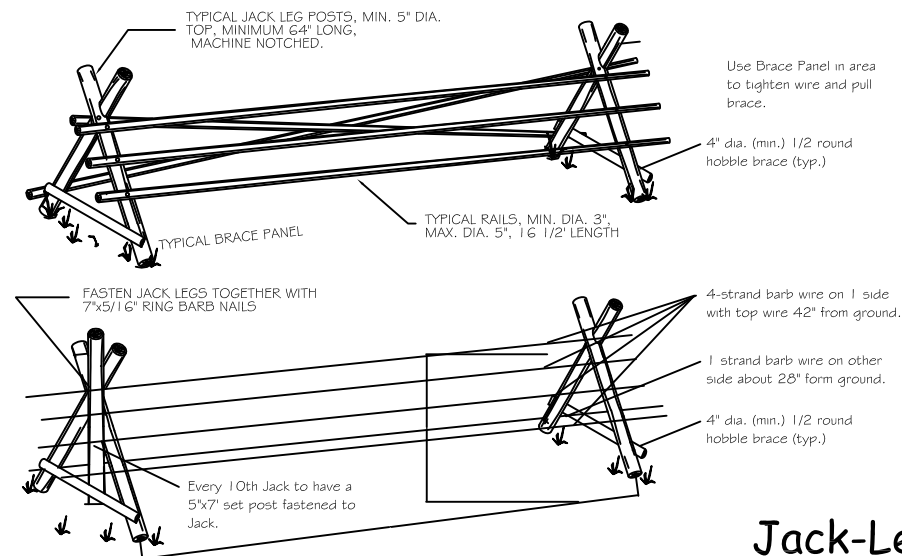
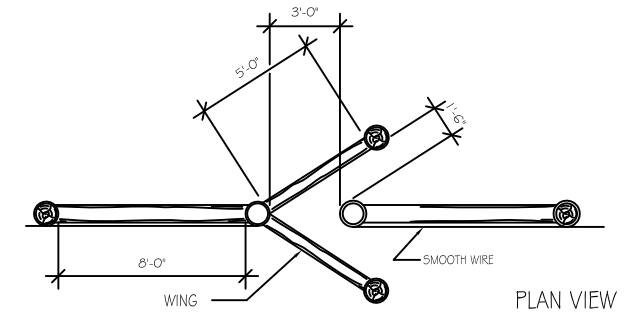
Double Panel



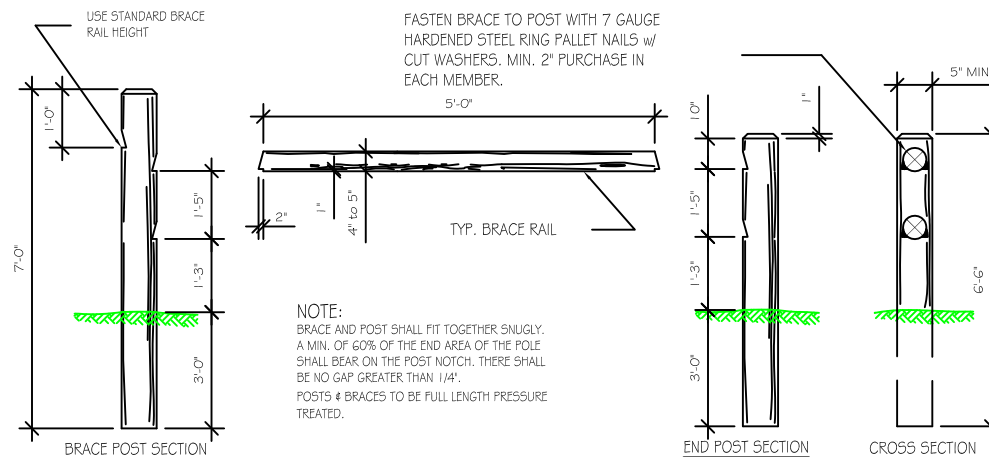
Typical Deadman Anchor Detail



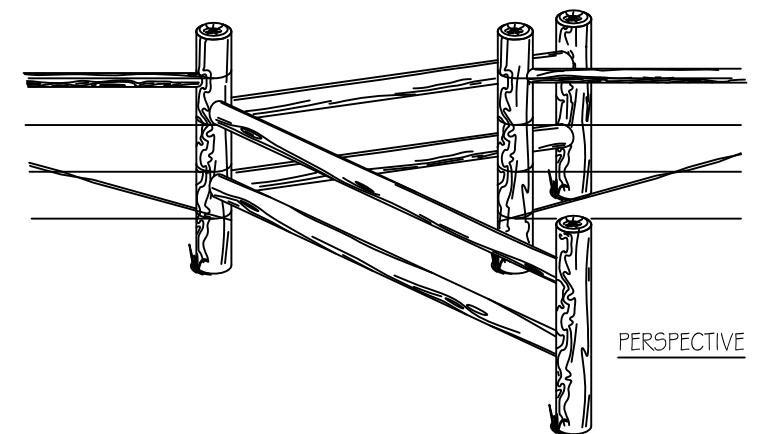
Typical Tree Anchor Point Detail



Jack-Leg



Pedestrian Turnstile



PERSPECTIVE

B. Mangum August 13, 2014
 DRAWN BY: DATE:
 M. McNearney August 13, 2014
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APPROVED BY: DATE:
 APPROVED BY: DATE:

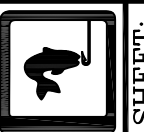
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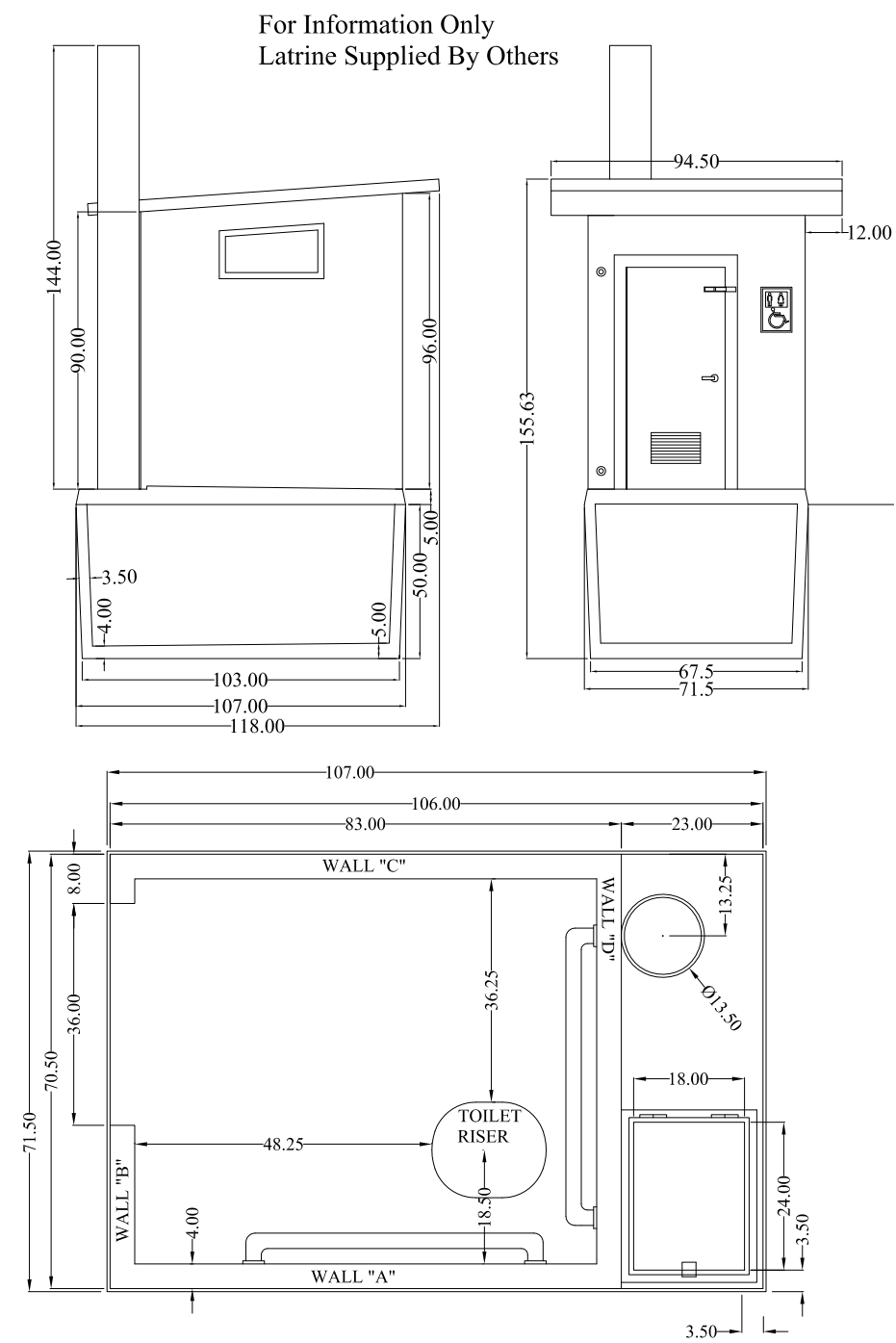
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Typical Fence Details
 Island Lake Fishing Access Site



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GENERAL

All dimensions are in inches, unless otherwise noted.

INSTALLATION

General Installation involves excavation, leveling bottom of hole with drain aggregate, installing latrine, backfilling around latrine and landscaping.

EXCAVATION

- A. Excavate subsoil to a point 12 inches deeper than required for latrine installation.
 - 1. Depth of excavation is 50 inches for the precast latrines manufactured by Flathead Concrete.
 - 2. Finish floor elevation shall be a minimum of 4-6 inches above natural grade measured at the front entrance.
- B. Minimize over excavation. Stockpile excavated material for later backfilling and landscaping.
- C. Compact bottom of hole with three passes of whacker or skid plate compaction device.

LEVELING

- A. Use a well-graded gravel and place enough in bottom of hole such that when compacted, it will be 12 inches deep.
- B. Compact leveling material with three passes of compaction device.
- C. Level base for installation of latrine.

LATRINE INSTALLATION

- A. The precast latrine will be set by the supplier.
- B. Insure that latrine sits level and plumb when done installing.

BACKFILLING

- A. Place a foot of well-graded gravel around base of vault and compact.
- B. Place in successive 8 inch layers material previously excavated from hole and compact.
 - 1. Remove rocks larger than 6 inches in diameter from the fill.
 - 2. Remove branches, roots and other or organic debris in fill.

LANDSCAPING

- A. Slope grade away from latrine.
- B. Blend fill slope into surrounding terrain.
- C. Remove surplus fill material.
- D. Remove soil to a depth of 2 inches beneath location for entrance slab and compact.
- E. Place two inches of pea gravel for concrete entrance slab bedding, level and compact.

SYMBOLS LEGEND

Existing Features

Control Point



Property Boundary



Proposed Features

Gravel Surfacing
6" Base Surface



Gravel Surfacing
8" Base Surface



Over Geotextile Fabric

Concrete Curb Stop



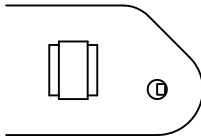
Barrier Rocks



Sign and Posts (Panels
Furnished by FWP)



Living Unit - Gravel Pad
by Contractor; Table
and Fire-ring by FWP



Horizontal Station

O+00.00

Existing Grade

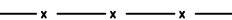
XX.XX (XX.XX)

Finished Design Grade

New Fence - See
Plan for Type



Repair Existing
4-Wire Farm Fence
as Noted on Plan



Remove Existing
Fence



HDPE Culvert w/
Galv. Steel FETS
see plan for size



CONTROL POINTS

Desc	Northing	Easting	Elevation
CP1	10,000.00	5,000.00	1000.00
CP2	9,635.04	5,214.38	997.74
CP3	9,974.90	4,710.90	996.02
CP4	10,160.68	4,730.12	996.28
CP5	9,582.28	5,189.56	999.49
CP6	9,503.93	5,120.52	998.20
CP7	9,329.42	5,123.66	995.38
CP8	9,182.24	5,072.83	991.17
CP9	8,759.89	4,656.25	991.73
CP10	8,573.01	4,867.03	1009.97
CP11	8,356.21	4,949.92	1023.33
CP12	8,296.80	5,118.54	1027.47
CP13	8,067.14	5,077.76	1011.08

ESTIMATED QUANTITIES:

BID ITEM:	QTY	UNIT
SILT FENCE	22	LF
EXCAVATION	335	CY
EMBANKMENT	310	CY
EXISTING ROAD RECONDITIONING	2060	LF
IMPORTED 3" (-) PITRUN SUBBASE	50	CY
1" (-) CRUSHED BASE COURSE-6" DEPTH	600	CY
1" (-) CRUSHED BASE COURSE-8" DEPTH	540	CY
GEOTEXTILE FABRIC	2,400	SY
18" HDPE CULVERT W/ FETS	40	LF
GRAVEL CAMP UNIT LIVING SPACE	4	EACH
EXISTING WIRE FENCE REMOVAL	955	LF
NEW WIRE FENCE	1737	LF
NEW JACK LEG WIRE FENCE	669	LF
PEDESTRIAN TURNSTILE	1	EACH
CONCRETE CURB STOPS	11	EACH
BARRIER ROCK	55	EACH
SINGLE POST SIGN	1	EACH
DOUBLE POST SIGN	4	EACH

NOTES:

1. New directional signs to be installed at intersection of Lost Prairie Road & Pleasant Valley Road and at intersection of Old Railroad Grade Road & Coniff Creek Road. New site entrance sign to be placed at entrance from Coniff Creek Road.

2. Owner will establish initial survey control and alignment grade stakes, see Technical Specification 01050, Field Engineering for additional Contractor surveying requirements.

3. Remove and disperse all existing modern stone fire rings. Furnish and install gravel leveling pad at each new table space as detailed. New picnic tables and fire rings installed by Owner.

4. Contractor can use the existing and proposed footprint for staging and stockpiling, with exceptions, see Technical Specification 01010.

5. Any utilities depicted on these plans are in accordance with their achieved "Quality Levels" as defined in the American Society of Civil Engineer's document ASCE 38, "Standard for the Collection and Depiction of Existing Subsurface Utility Data."

CULTURAL RESOURCE MONITORING NOTES:

1. Due to potential cultural resource sensitivity of areas of the site, excavation will be monitored by a professional archaeologist retained by Owner. Excavation areas of primary concern will include, but not be limited to: 1. Boat Ramp, 2. Day-Use Truck/Trailer Parking, 3. Concrete Vault Latrine, and 4. Access Road Station 7+78.7 to 9+37.5. Contractor shall make every reasonable effort to limit excavation of these four areas of primary concern to three consecutive business days in early stages of construction.

2. Contractor shall coordinate excavation of primary areas of interest with Owner 2 business days minimum prior to excavation.

3. Contractor shall provide full and safe access to Archaeologist as required to fulfill construction monitoring requirement.

4. In the event that Archaeologist discovers cultural resources of significant concern Contractor will cease work in that area until notified otherwise by Owner. Owner will respond to Archaeologist request within 24 hours.

B. Mangum August 13, 2014

DRAWN BY: DATE:

M. McNearney August 13, 2014

CHECKED BY: DATE:

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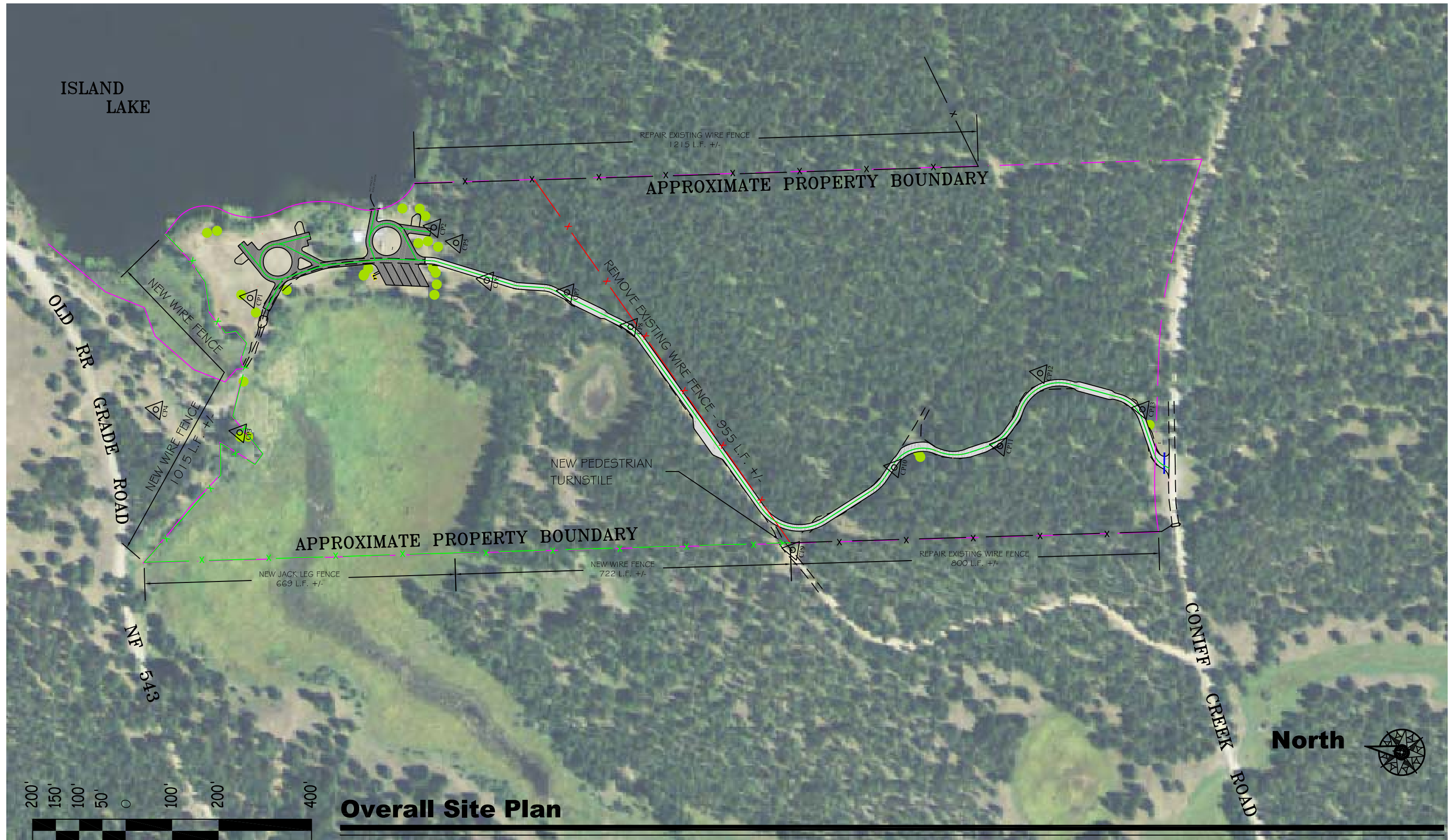
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Legend and General Notes
Island Lake Fishing Access Site



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Overall Site Plan

B. Mangum August 13, 2014
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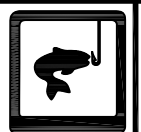
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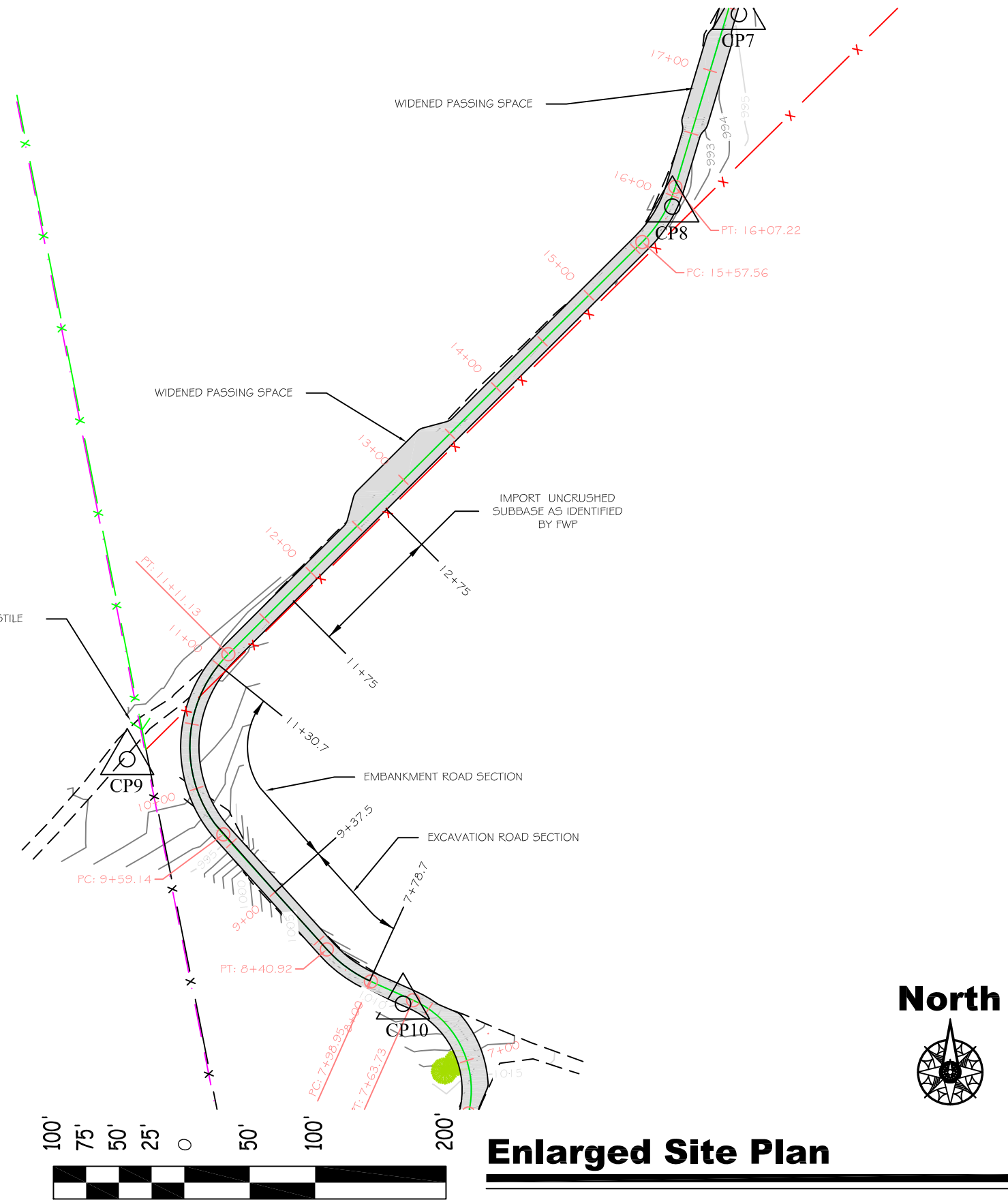
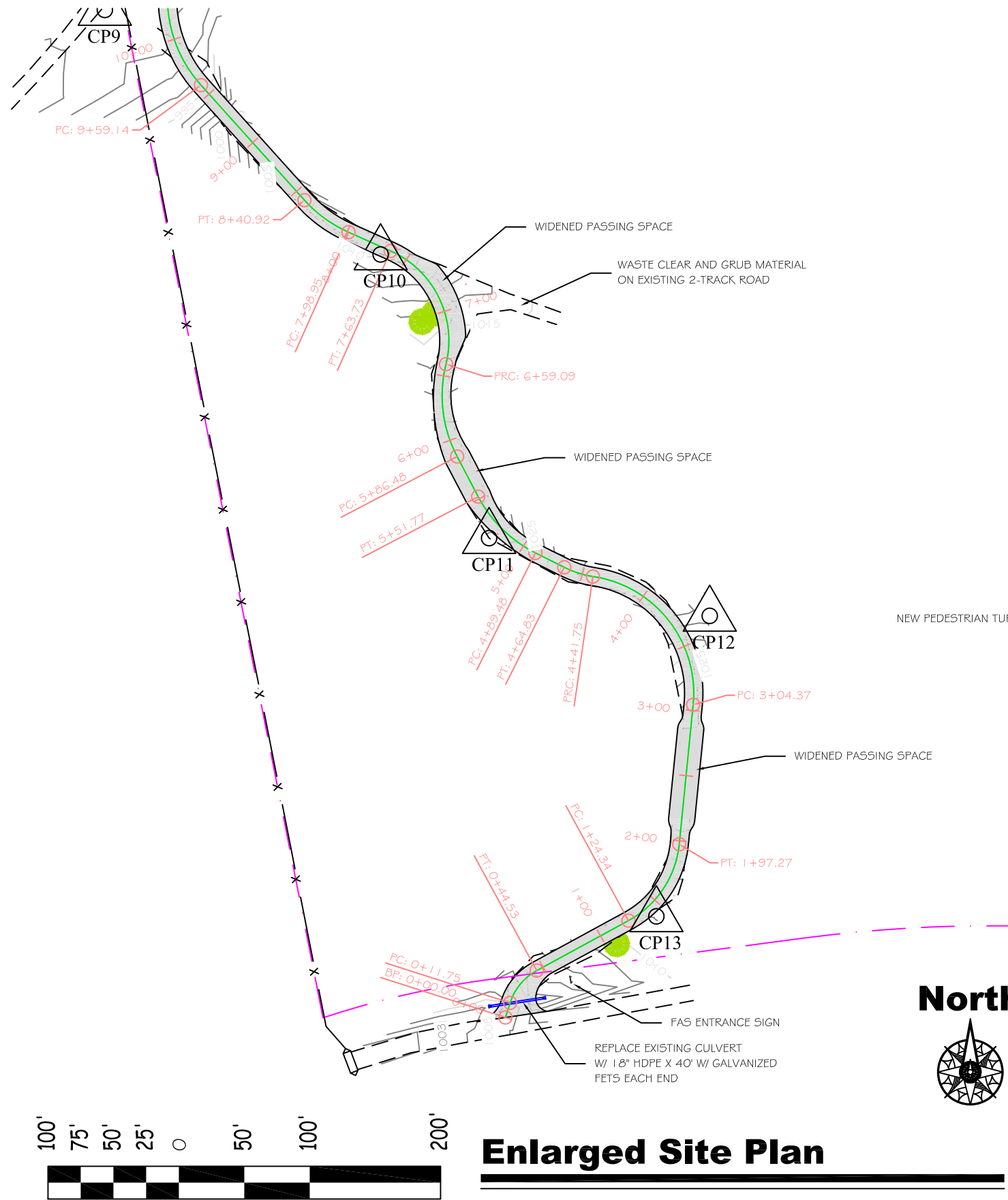
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Overall Site Plan
 Island Lake Fishing Access Site



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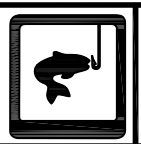
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M. McNearney August 13, 2014			
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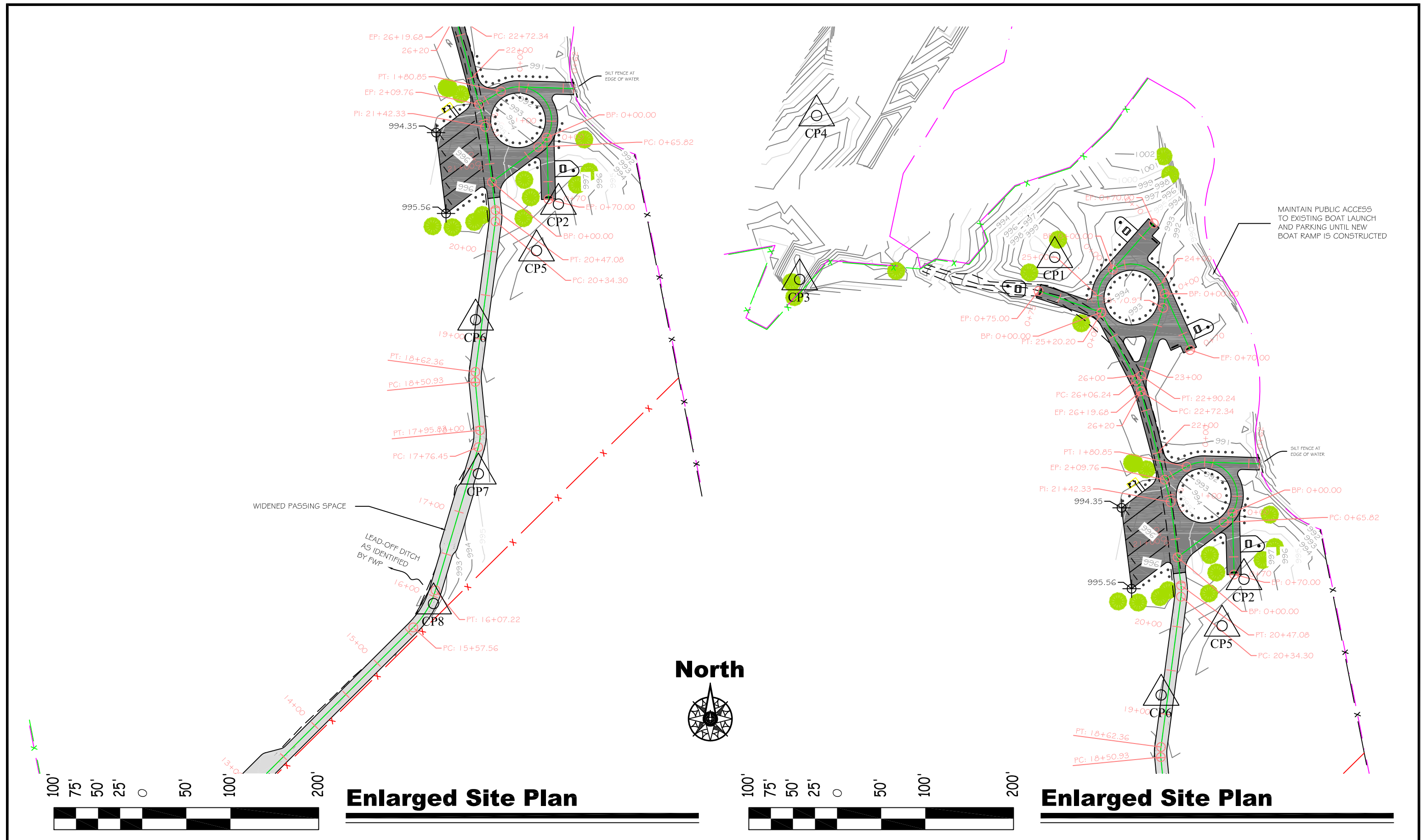
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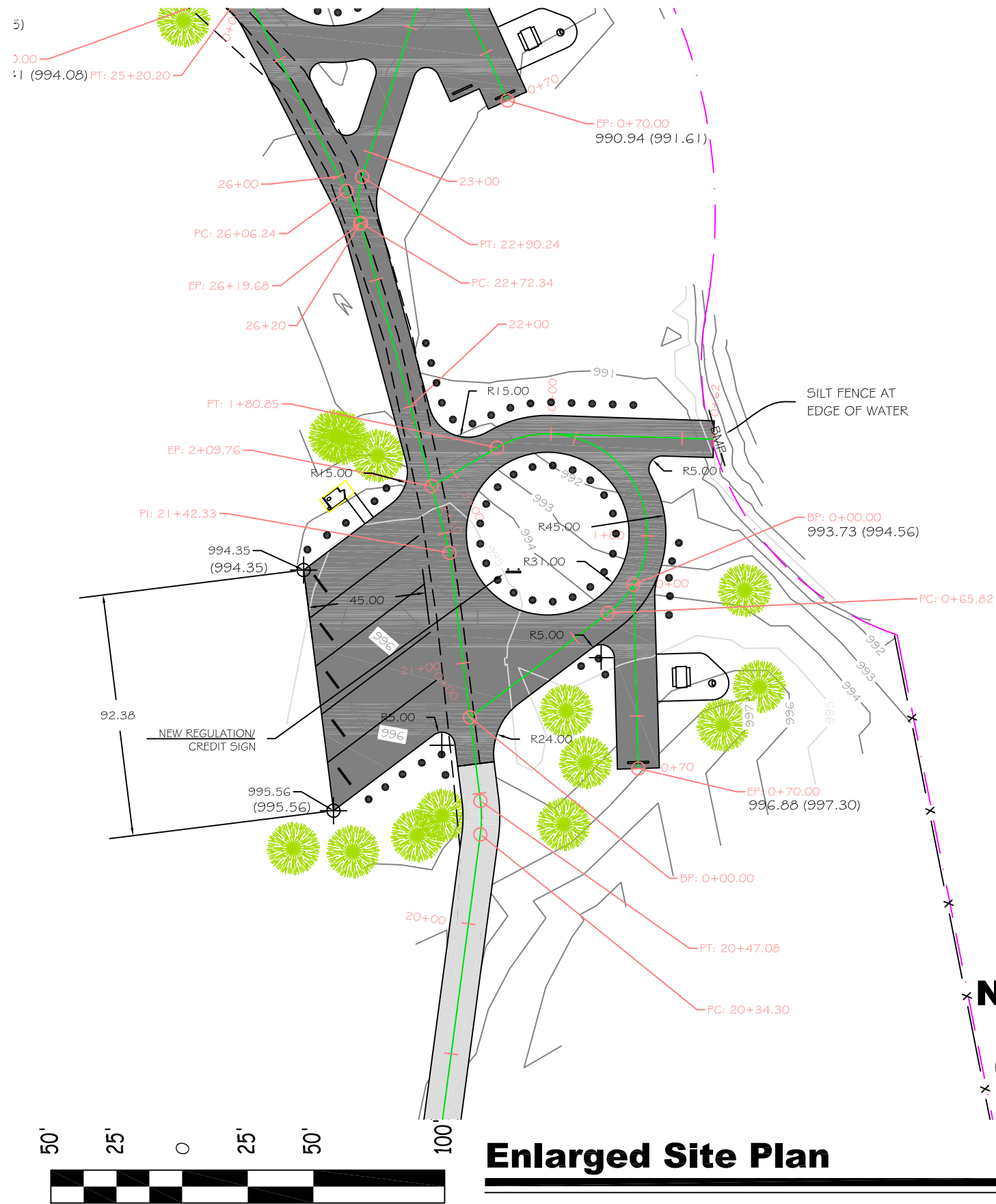
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Enlarged Area Site Plans
Island Lake Fishing Access Site



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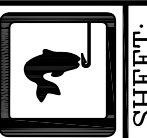
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M. McNearney August 13, 2014			
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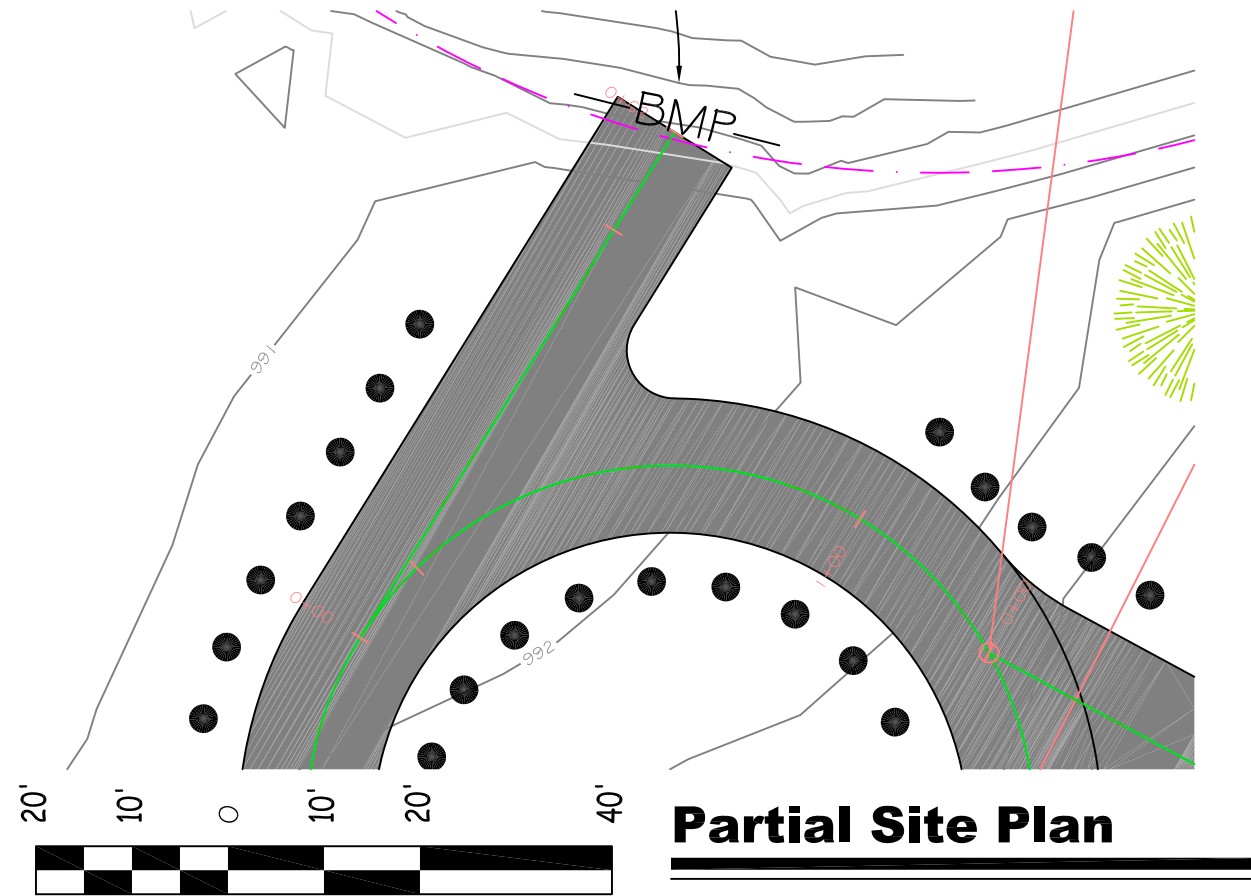
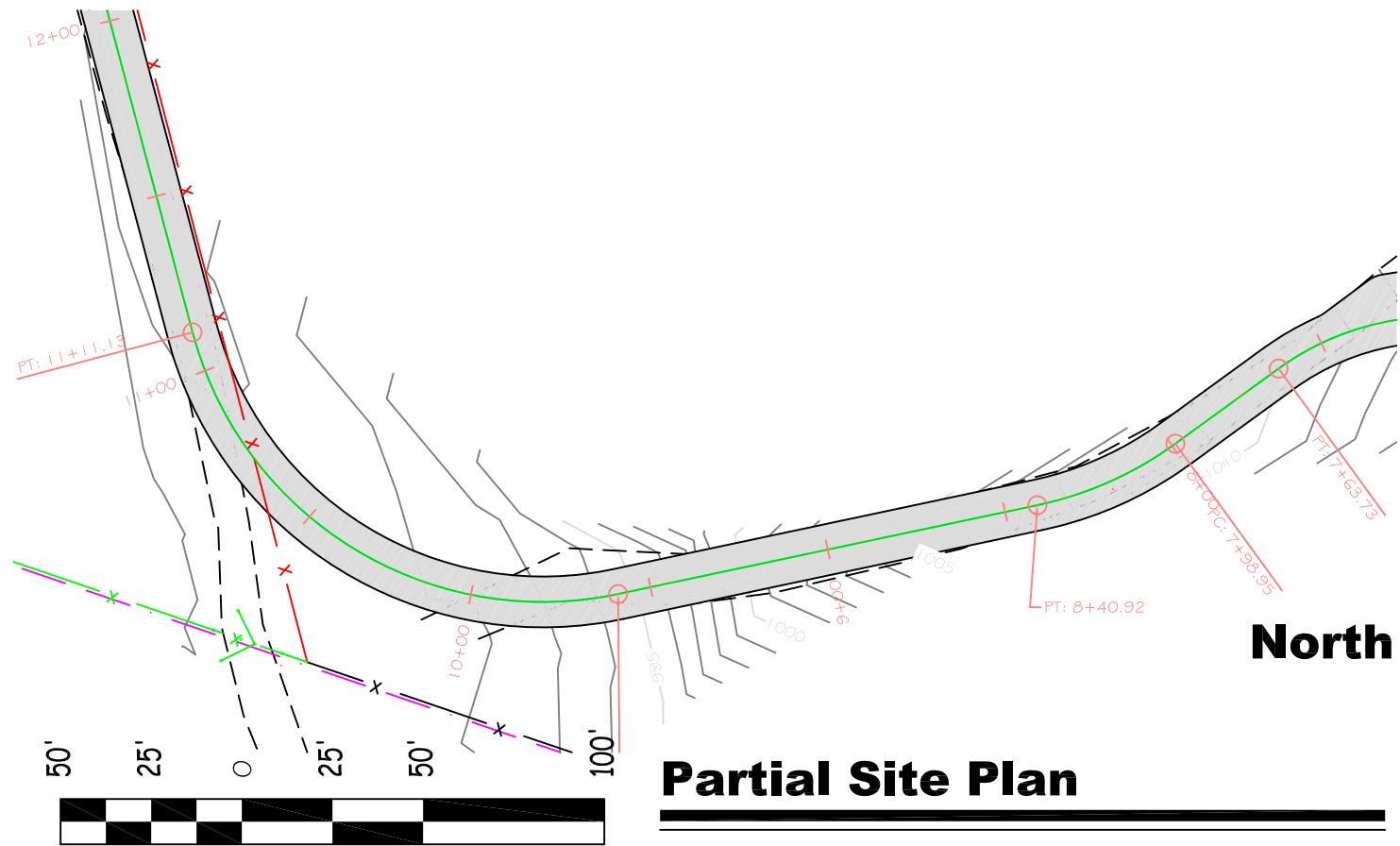
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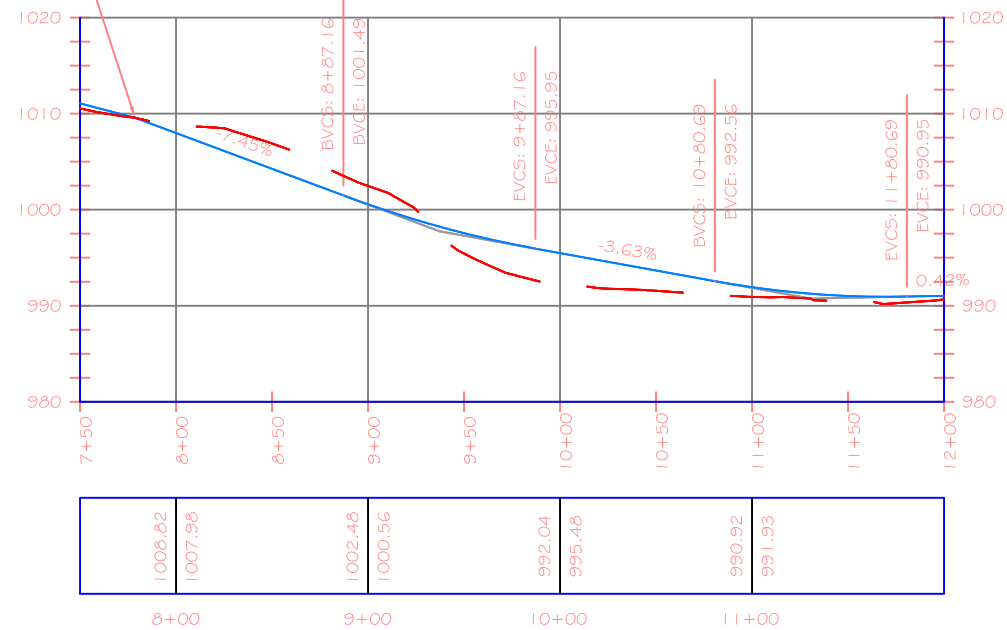
Enlarged Area Site Plans
Island Lake Fishing Access Site



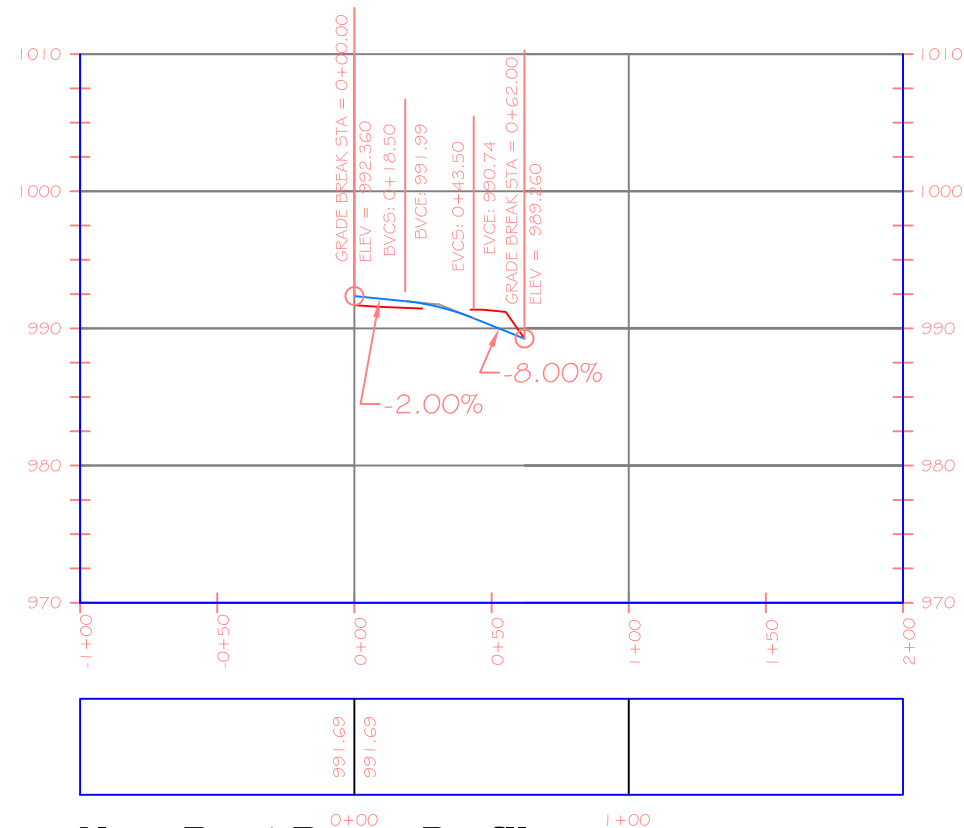
SHEET: 10
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GRADE BREAK STA = 7+78.69
ELEV = 1009.572



New Roadway Construction Profile



New Boat Ramp Profile

B. Mangum August 13, 2014
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APPROVED BY: DATE:
APPROVED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:



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Partial Site Plan and Profile
Island Lake Fishing Access Site



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